# BRUHAT BANGALORE MAHANAGARA PALIKE

## Yelahanka Zone, Electrical Division

**Modified Schedule B**

**Name of work :-** Upgradation of Musical Fountain and other Devalopmental Works in Kempegowda Park in Ward No 04 of Yelahanka satalite Town Sub Division Annex 06 SL No 249.

**Est Amt: 10000000.00**

| Sl No | Description Of Work | Unit | Qty | Rate | In Words |
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| 1 | Fabricating, supplying and erection of ...Mtrs long hot dip **Galvanized Octagonal pole** with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.7 meters - Top 70mm and bottom 130mm dia | Nos | 1 | 11473.88 | Eleven Thousand Four Hundred Seventy Three Rupees and Eighty Eight Paise |
| 2 | Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen MaintenanceUniversal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Floodlight 180W | Nos | 25 | 18475.38 | Eighteen Thousand Four Hundred Seventy Five Rupees and Thirty Eight Paise |

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| 3 | Erection of steel supports 7.5 to 8.0 mtr long steel supports (18.75 kgs./41Lbs) Rail, 125x75 mm, I beam in pit of 1.5 mtr depth (Releasing of steel supports=90% of erction Charges Rs 298x90%=268.20) | Nos | 57 | 281.23 | Two Hundred Eighty One Rupees and Twenty Three Paise |
| 4 | Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. (Releasing of LED Lights=90% of erction Charges Rs 175x90%=157.50) | Nos | 57 | 165.03 | One Hundred Sixty Five Rupees and Three Paise |
| 5 | Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990.3C X 2.5Sq.mm | Mtrs | 250 | 102.53 | One Hundred Two Rupees and Fifty Three Paise |
| 6 | Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 2C X 1.5Sq.mm | Mtrs | 1300 | 41.99 | Forty One Rupees and Ninety Nine Paise |
| 7 | Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 3C X 1.5Sq.mm | Mtrs | 150 | 57.61 | Fifty Seven Rupees and Sixty One Paise |
| 8 | Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 4C X 1.5Sq.mm | Mtrs | 1650 | 68.36 | Sixty Eight Rupees and Thirty Six Paise |
| 9 | Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm | Mtrs | 1985 | 157.22 | One Hundred Fifty Seven Rupees and Twenty Two Paise |
| 10 | Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 50 sqmm | Mtrs | 100 | 315.41 | Three Hundred Fifteen Rupees and Forty One Paise |
| 11 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.6 sqmm to 16 sqmm | Mtrs | 1985 | 12.69 | Twelve Rupees and Sixty Nine Paise |

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| 12 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct 25 sqmm to 75 sqmm | Mtrs | 100 | 16.60 | Sixteen Rupees and Sixty Paise |
| 13 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary) | Mtrs | 1800 | 80.07 | Eighty Rupees and Seven Paise |
| 14 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. ( Icu = Ics)100Amps 25kA | Nos | 2 | 4755.56 | Four Thousand Seven Hundred Fifty Five Rupees and Fifty Six Paise |
| 15 | Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG | Sqcms | 60000 | 0.36 | No Rupees and Thirty Six Paise |
| 16 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm | Mtrs | 21 | 267.56 | Two Hundred Sixty Seven Rupees and Fifty Six Paise |
| 17 | Providing RCC Pole Pedestal of size 0.3X0.3X1.25 as per dat | | 75 | 3149.21 | Three Thousand One Hundred Forty Nine Rupees and Twenty One Paise |
| 18 | 13.66 KSRB13-8.1 : Providing and fixing to wall, ceiling and floor, medium m 90.00density polyethylene pipes 6.00 kgs/sq.cm working pressure 20mm outside diameter with special flange, compression type fittings, wall clips,making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No KBS 13.2.15.1 /13.9 for internal water supply connection KSRB 13-8.5 - do - 50 mm dia | Mtrs | 50 | 274.40 | Two Hundred Seventy Four Rupees and Forty Paise |
| 19 | 13.66 KSRB13-8.1 : Providing and fixing to wall, ceiling and floor, medium m 90.00 density polyethylene pipes 6.00 kgs/sq cm working pressure 20mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 /13.9 for internal water supply connection KSRB 13-8.9 : -do- 110mm | Mtrs | 100 | 472.63 | Four Hundred Seventy Two Rupees and Sixty Three Paise |

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| 20 | Tipper -5Cum. | Hr | 18 | 212.88 | Two Hundred Twelve Rupees and Eighty Eight Paise |
| 21 | Supply and erection of 3 Mtr long Aluminium Pole with 60 watt LED Light made out of extruded alluminium 80x120mm with 3 MM thickness, with attached bent Square curvature at the top with Two nos of Light, Blue colour Strip Light should be conduted along the Pole and Square light on liner side, Grey Colour Powder Coated, strip wattage 20W, pole is mounted on base Plate of 200x200 with required 4 nos foundation Bolts suitable for cable entry hole of 60mm at the bottom of the Pole. MCB Cutting of 500mm from the bottom of the pole with 12 inches Height.as per the Drawing enclosed . Model name & Make :Square super , Emerald Lighting Solutions or any equalent | Nos | 50 | 35388.36 | Thirty Five Thousand Three Hundred Eighty Eight Rupees and Thirty Six Paise |
| 22 | Supply and erection of 3 Mtr long Aluminium Pole with 60 watt LED Light made out of extruded alluminium 80x120mm with 3 MM thickness, with same dimention attached bent at 45 deg Bracket and Diamond Shaped Curvature suspended from the Bracket, Blue colour Strip Light should be conduted along the Pole, bracket and Diomend Shape on linear side, Grey Colour Powder Coated, strip wattage 20W, pole is mounted on base Plate of 200x200 with required 4 nos foundation Bolts suitable for cable entry hole of 60mm at the bottom of the Pole. MCB Cutting of 500mm from the bottom of the pole with 12 inches Height.as per the Drawing enclosed. Model name & Make :Diamond Cargo , Emerald Lighting Solutions or any equalent | Nos | 25 | 45500.02 | Forty Five Thousand Five Hundred Rupees and Two Paise |
| 23 | Fabrication, Supplying, erection, Integration, testing and commissioning of CENTRE JET ,it should be 20mm orifice with a jet height of 7 Mtrs high & stable jet made of brass | Nos | 1 | 21257.43 | Twenty One Thousand Two Hundred Fifty Seven Rupees and Forty Three Paise |
| 24 | Fabrication, Supplying, erection, Integration, testing and commissioning of SWIVEL LINE a dynamic pattern, each with 18 numbers brass nozzles To & Fro movement on either side with the help of electro-mechanical actuator. | Nos | 2 | 71211.26 | Seventy One Thousand Two Hundred Eleven Rupees and Twenty Six Paise |
| 25 | Fabrication, Supplying, erection, Integration, testing and commissioning of BASKET PATTERN-Consists of 1.1 Mtr Dia Alluminium ring having 18 Nos10 MM Polymer nozzles, With Jet Height of 4 Mtrs | Set | 1 | 47124.91 | Forty Seven Thousand One Hundred Twenty Four Rupees and Ninety One Paise |
| 26 | Fabrication, Supplying, erection, Integration, testing and commissioning of TWO TIER WEDDING CAKE-Consists of two nos alluminium rings of dia 1.1 Mtrs and 1.5 Mtrs, with total 72 Nos brass nozzle to form two tier effect | set | 1 | 109204.92 | One Lac Nine Thousand Two Hundred Four Rupees and Ninety Two Paise |

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| 27 | Fabrication, Supplying, erection, Integration, testing and commissioning of MESH RING with 600 mm dia, Each with 20 nos 3 mm ball joint brass,which can be fine tuned to give the formation of 'Mesh Ring'. With a jet height of 2 Mtrs | Nos | 4 | 31294.87 | Thirty One Thousand Two Hundred Ninety Four Rupees and Eighty Seven Paise |
| 28 | Fabrication, Supplying, erection, Integration, testing and commissioning of AUXILIARY STRAIGHT JET- Consists of 10mm orificenoryl construction With a jet height of 5 Mtrs | Nos | 4 | 4606.15 | Four Thousand Six Hundred Six Rupees and Fifteen Paise |
| 29 | Fabrication, Supplying, erection, Integration, testing and commissioning of DANCING PEACOCK— This is a revolving pattern consisting of 20mm brass jet having 13 outlets. This brass jet revolves to create a 'Dancing Peacock' effect | Nos | 4 | 18895.28 | Eighteen Thousand Eight Hundred Ninety Five Rupees and Twenty Eight Paise |
| 30 | Fabrication, Supplying, erection, Integration, testing and commissioning of SMALL DOME –Each Small dome 750mm dia Alluminium ring Consists of 20no brass ball joint nozzle With a jet height of 2 Mtrs | Nos | 2 | 34051.53 | Thirty Four Thousand Fifty One Rupees and Fifty Three Paise |
| 31 | Fabrication, Supplying, erection, Integration, testing and commissioning of OUT SIDE DROP RING –Consisting of 900mm dia Alluminium ring with 24 no brass ball joint nozzle With a jet height of 1.5 Mtrs | Nos | 2 | 39633.21 | Thirty Nine Thousand Six Hundred Thirty Three Rupees and Twenty One Paise |
| 32 | Fabrication, Supplying, erection, Integration, testing and commissioning of DANCING FOUNTAIN- with jet height of 2 Mtrs | Nos | 2 | 23619.58 | Twenty Three Thousand Six Hundred Nineteen Rupees and Fifty Eight Paise |
| 33 | Fabrication, Supplying, erection, Integration, testing and commissioning of MIST COLUMN- Each Mist column consists 19 no of mist nozzles mounted on an aluminium header. | Sets | 4 | 29170.01 | Twenty Nine Thousand One Hundred Seventy Rupees and One Paisa |
| 34 | Fabrication, Supplying, erection, Integration, testing and commissioning of ARCH JET-Consists 12.7 mm brass nozzle With a jet height of 4 Mtrs | Nos | 4 | 14171.94 | Fourteen Thousand One Hundred Seventy One Rupees and Ninety Four Paise |
| 35 | Fabrication, Supplying, erection, Integration, testing and commissioning of Aluminium supporting frame for water effects with 100 x 50 mm alu channe | Mtrs | 30 | 5077.80 | Five Thousand Seventy Seven Rupees and Eighty Paise |
| 36 | Supplying, erection, Integration, testing and commissioning of Solenoid valves Made out of SS construction | Nos | 21 | 21257.43 | Twenty One Thousand Two Hundred Fifty Seven Rupees and Forty Three Paise |
| 37 | Supplying, erection, Integration, testing and commissioning of Gate valves:GM gate valve (40 mm, 32 mm & 25 mm) (Make: HM/Vijay) | Nos | 56 | 6377.52 | Six Thousand Three Hundred Seventy Seven Rupees and Fifty Two Paise |
| 38 | Supplying, erection, Integration, testing and commissioning of CI check valve, 100 mm, wafer type. (Make: Leader / Zoloto / L&T) | Nos | 2 | 17812.34 | Seventeen Thousand Eight Hundred Twelve Rupees and Thirty Four Paise |
| 39 | Supplying, erection, Integration, testing and commissioning of Mono submersib,e pump with Suction strainer with SS mesh 10 HP, 3 Phase, Make: Kirloskar / KSB | Nos | 2 | 153996.98 | One Lac Fifty Three Thousand Nine Hundred Ninety Six Rupees and Ninety Eight Paise |

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| 40 | Fabrication,Supplying, erection, Integration, testing and commissioning of GI Sump cover of size 70" x 32" with SS mesh | No | 1 | 13226.69 | Thirteen Thousand Two Hundred Twenty Six Rupees and Sixty Nine Paise |
| 41 | Fabrication,Supplying, erection, Integration, testing and commissioning of Fabrication,Supplying, erection, Integration, testing and commissioning of GI manifold, 100 NB x 2 m long, with supporting stands | Nos | 2 | 6259.37 | Six Thousand Two Hundred Fifty Nine Rupees and Thirty Seven Paise |
| 42 | Fabrication,Supplying, erection, Integration, testing and commissioning of GI feeder pipe (Jindal / Utkarsh), 6 m long, connecting the pumps & manifold | Nos | 2 | 17997.87 | Seventeen Thousand Nine Hundred Ninety Seven Rupees and Eighty Seven Paise |
| 43 | Fabrication,Supplying, erection, Integration, testing and commissioning of GI feeder pipe (Jindal / Utkarsh) connecting the manifold and water effects | Set | 1 | 177497.43 | One Lac Seventy Seven Thousand Four Hundred Ninety Seven Rupees and Forty Three Paise |
| 44 | Fabrication,Supplying, erection, Integration, testing and commissioning of Electromechanical Actuator with splash proof FRP cover and necessary linkages. | No | 1 | 354883.54 | Three Lac Fifty Four Thousand Eight Hundred Eighty Three Rupees and Fifty Four Paise |
| 45 | Supplying, erection, Integration, testing and commissioning of LED lights (RGB), IP 68, 21 Watts 12 volts in polymer construction | No | 62 | 10628.23 | Ten Thousand Six Hundred Twenty Eight Rupees and Twenty Three Paise |
| 46 | Supplying, erection, Integration, testing and commissioning of Underwater junction box | No | 30 | 1936.40 | One Thousand Nine Hundred Thirty Six Rupees and Forty Paise |
| 47 | Fabrication,Supplying, erection, Integration, testing and commissioning of Electrical panel for pumps | No | 1 | 389715.29 | Three Lac Eighty Nine Thousand Seven Hundred Fifteen Rupees and Twenty Nine Paise |
| 48 | Fabrication,Supplying, erection, Integration, testing and commissioning of Master Control panel for valves & lights | No | 1 | 555639.24 | Five Lac Fifty Five Thousand Six Hundred Thirty Nine Rupees and Twenty Four Paise |
| 49 | Fabrication,Supplying, erection, Integration, testing and commissioning of Programmed Controller and FFC controller | No | 1 | 265250.60 | Two Lac Sixty Five Thousand Two Hundred Fifty Rupees and Sixty Paise |
| 50 | Supplying, erection, Integration, testing and commissioning of Speaker 200 watt (Ahuja) | Nos | 8 | 37790.55 | Thirty Seven Thousand Seven Hundred Ninety Rupees and Fifty Five Paise |
| 51 | Supplying, erection, Integration, testing and commissioning of Amplifier 500 watt (Ahuja) | Nos | 2 | 90342.85 | Ninety Thousand Three Hundred Forty Two Rupees and Eighty Five Paise |
| 52 | Supplying, erection, Integration, testing and commissioning of DVD Player | No | 1 | 14525.44 | Fourteen Thousand Five Hundred Twenty Five Rupees and Forty Four Paise |
| 53 | pre selected songs of our choice programming with fountain effects 60 Minits | Set | 1 | 212572.33 | Two Lac Twelve Thousand Five Hundred Seventy Two Rupees and Thirty Three Paise |

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| 54 | Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit ( Mother board ) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit.3) Gate Driver Unit: Firing angle controllable board for driving the thyristor. 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching.5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components. | Nos | 2 | 54061.97 | Fifty Four Thousand Sixty One Rupees and Ninety Seven Paise |

Executive Engineer (Ele)
Yelahanka Zone